ABSTRACT

   A mobile terminal apparatus that considers intervals between key input operations when characters are input, and, when there is an interval grater than a certain period

5   of time between operations, or when a shift is made to different character input, reads aloud the voice corresponding to the stored input character and reads aloud only the character the user needs to check.   In this apparatus, when other characters are continuously input

10   by the same key input within a predetermined time, character selection fixing section 201 updates the stored content in present candidate storage section 202, outputs the updated candidate character to display control section 204 as a displaying character and displays the

15   updated candidate character on liquid crystal display section 103.   At this time, the voice corresponding to the displaying candidate character is not reproduced. When the predetermined time passes without key input, character selection fixing section 201 reads aloud the

20   present candidate character stored in present candidate storage section 202, outputs the present candidate character to reading determination section 206 as a fixed character, and voice reproduction section 105 reproduces the voice corresponding to the fixed character.

FIG.2

104   KEY INPUT SECTION

201   CHARACTER SELECTION FIXING SECTION

FIXED

5   203   INPUT CHARACTER STRING STORAGE SECTION

204   DISPLAY CONTROL SECTION

103   LIQUID CRYSTAL DISPLAY SECTION

INPUTTING CHARACTER

UPDATED

10   202   PRESENT CANDIDATE STORAGE SECTION

DISPLAYING CHARACTER

205   TIMER SECTION

206   READING DETERMINATION SECTION

207   VOICE SYNTHESIS SECTION

15   105   VOICE REPRODUCTION SECTION

FIG.3

S301 WAIT FOR INPUT

KEY INPUT/DISPLAY CANDIDATE CHARACTER

20   S302 DISPLAY CANDIDATE

LESS THAN 400MSEC PASS

NO KEY INPUT & 400MSEC PASS/READ ALOUD CANDIDATE CHARACTER

S303 DISPLAY CANDIDATE

MORE THAN 400MSEC PASS

25   ANOTHER KEY INPUT/FIX AND READ ALOUD PRESENT CANDIDATE ·

DISPLAY NEW CANDIDATE CHARACTER

SAME KEY INPUT/DISPLAY NEXT CANDIDATE CHARACTER

FIG.4

PRESS KEY 1

WITHIN 400MSEC

BEYOND 400MSEC

READ ALOUD CANDIDATE CHARACTER

LIQUID CRYSTAL DISPLAY

FIG.5

PRESS KEY 1

WITHIN 400MSEC

BEYOND 400MSEC

LIQUID CRYSTAL DISPLAY

FIG.6

PRESS KEY 1

WITHIN 400MSEC

PRESS KEY 2 → "い" IS FIXED

LIQUID CRYSTAL DISPLAY